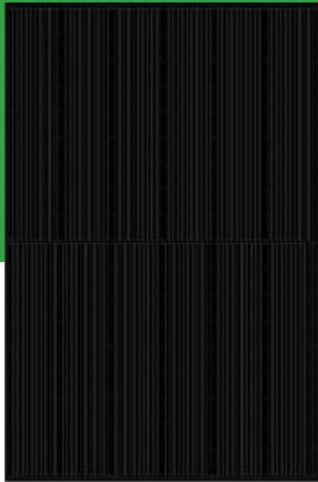




# AS-7M108N-HC Black

## 430W~460W

### MONOCRYSTALLINE MODULE

#### ADVANCED PERFORMANCE & PROVEN ADVANTAGES

- High module conversion efficiency up to 22.53% by using innovative N-type TOPCon cell technology.
- Extremely low LID (light induced degradation) and low annual power degradation ensure higher energy yield during the module's lifetime.
- Low temperature coefficient and excellent performance under high temperature and low light conditions.
- Robust aluminum frame ensures the modules to withstand wind loads up to 2400Pa and snow loads up to 5400Pa.
- High reliability against extreme environmental conditions (passing salt mist, ammonia and hail tests).
- Potential induced degradation (PID) resistance.
- Aesthetically appealing design with black backsheet and frame.

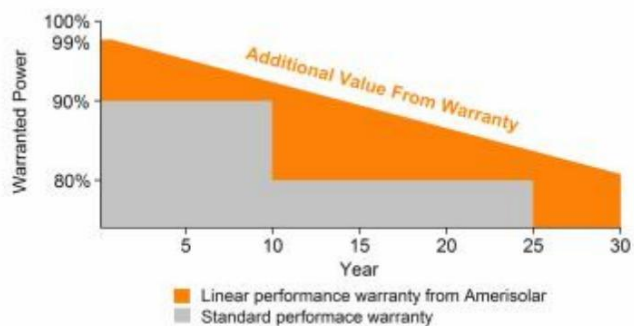
#### CERTIFICATIONS



- IEC 61215, IEC 61730, CE
- ISO 9001:2015: Quality management system
- ISO 14001:2015: Environmental management system
- ISO 45001:2018: Occupational health and safety management system

#### SPECIAL WARRANTY

- 20 years product warranty
- 30 years linear power output warranty



Passionately  
committed to  
delivering innovative  
energy solution

| ELECTRICAL CHARACTERISTICS AT STC           |                   |        |        |        |        |        |        |
|---------------------------------------------|-------------------|--------|--------|--------|--------|--------|--------|
| Maximum Power (P <sub>max</sub> )           | 430W              | 435W   | 440W   | 445W   | 450W   | 455W   | 460W   |
| Open Circuit Voltage (V <sub>oc</sub> )     | 38.4V             | 38.6V  | 38.8V  | 39.0V  | 39.2V  | 39.4V  | 39.6V  |
| Short Circuit Current (I <sub>sc</sub> )    | 14.06A            | 14.12A | 14.18A | 14.24A | 14.30A | 14.36A | 14.42A |
| Voltage at Maximum Power (V <sub>mp</sub> ) | 32.2V             | 32.4V  | 32.6V  | 32.8V  | 33.0V  | 33.2V  | 33.4V  |
| Current at Maximum Power (I <sub>mp</sub> ) | 13.36A            | 13.43A | 13.50A | 13.57A | 13.64A | 13.71A | 13.78A |
| Module Efficiency (%)                       | 22.02             | 22.28  | 22.53  | 22.79  | 23.04  | 23.29  | 23.54  |
| Operating Temperature                       | -40°C to +85°C    |        |        |        |        |        |        |
| Maximum System Voltage                      | 1000V DC/1500V DC |        |        |        |        |        |        |
| Fire Resistance Rating                      | Class C           |        |        |        |        |        |        |
| Maximum Series Fuse Rating                  | 25A               |        |        |        |        |        |        |

STC: Irradiance 1000W/m², Cell temperature 25°C, AM1.5; Tolerance of Pmax: ±3%; Measurement Tolerance: ±3%

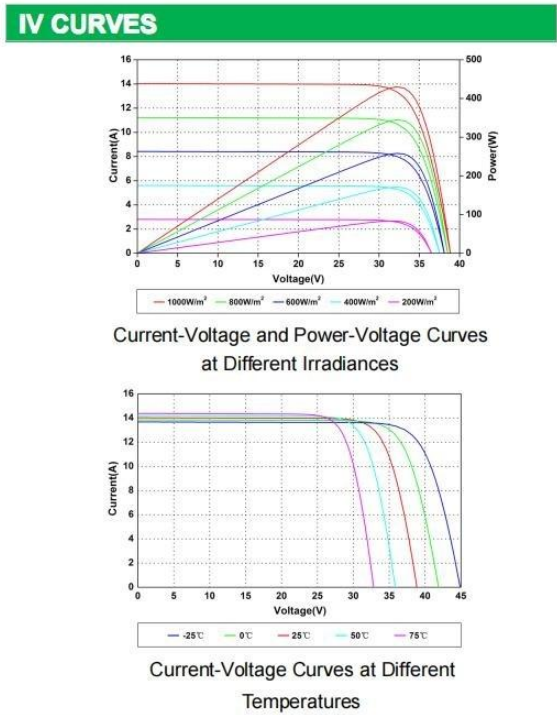
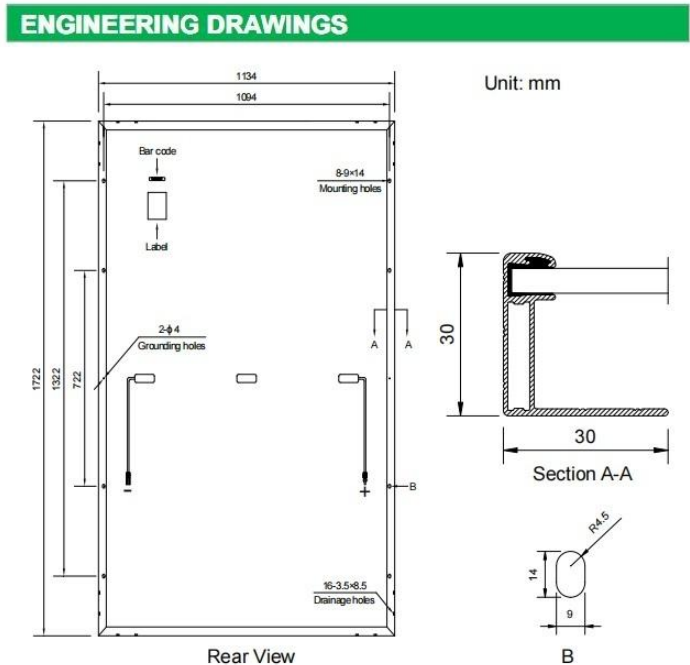
| ELECTRICAL CHARACTERISTICS AT NOCT          |        |        |        |        |        |        |        |
|---------------------------------------------|--------|--------|--------|--------|--------|--------|--------|
| Maximum Power (P <sub>max</sub> )           | 324W   | 328W   | 332W   | 336W   | 340W   | 344W   | 348W   |
| Open Circuit Voltage (V <sub>oc</sub> )     | 36.5V  | 36.7V  | 36.9V  | 37.1V  | 37.3V  | 37.5V  | 37.7V  |
| Short Circuit Current (I <sub>sc</sub> )    | 11.39A | 11.44A | 11.49A | 11.54A | 11.59A | 11.64A | 11.69A |
| Voltage at Maximum Power (V <sub>mp</sub> ) | 30.3V  | 30.5V  | 30.7V  | 30.9V  | 31.1V  | 31.3V  | 31.5V  |
| Current at Maximum Power (I <sub>mp</sub> ) | 10.70A | 10.75A | 10.82A | 10.88A | 10.94A | 11.0A  | 11.6A  |

NOCT: Irradiance 800W/m², Ambient temperature 20°C, Wind Speed 1 m/s

| MECHANICAL CHARACTERISTICS |                                      |
|----------------------------|--------------------------------------|
| Cell type                  | Monocrystalline N-type 182*91mm      |
| Number of cells            | 108 (6x18)                           |
| Module dimensions          | 1722x1134x30mm                       |
| Weight                     | 20.5kg                               |
| Front cover                | 3.2mm tempered glass with AR coating |
| Frame                      | Anodized aluminum alloy              |
| Junction box               | IP68, 3 diodes                       |
| Cable                      | 4mm², 300mm; Customized Length       |
| Connector                  | MC4 or MC4 compatible                |

| TEMPERATURE CHARACTERISTICS                  |           |
|----------------------------------------------|-----------|
| Nominal Operating Cell Temperature (NOCT)    | 43°C±2°C  |
| Temperature Coefficients of P <sub>max</sub> | -0.30%/°C |
| Temperature Coefficients of V <sub>oc</sub>  | -0.25%/°C |
| Temperature Coefficients of I <sub>sc</sub>  | 0.045%/°C |

| PACKAGING                         |              |
|-----------------------------------|--------------|
| Standard packaging                | 36pcs/pallet |
| Module quantity per 20' container | 216pcs       |
| Module quantity per 40' container | 936pcs (HQ)  |



Specifications in this datasheet are subject to change without prior notice.